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WATER SUPPLY OUTLOOK FOR IDAHO

U. S. DEPT. OF AGRICULTURE
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MAY 20 1970

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS *CURRENT SERIAL RECORDS*

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE,
and
IDAHO STATE RECLAMATION ENGINEER

Data included in this report were obtained by the agencies named above
in cooperation with Federal, State and private organizations listed in-
side the back cover of this report.

AS OF
MAY 1, 1970

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates from mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1400 snow courses in Western United States and in the Columbia Basin in British Columbia. In the near future, it is anticipated that automatic snow water equivalent sensing devices along with radio telemetry will provide a continuous record of snow water equivalent at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	12417 Federal Building, Denver, Colorado 80202
Idaho	Room 345, 304 N. 8th St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Building, Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 340, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES.

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia.



WATER SUPPLY OUTLOOK FOR IDAHO

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

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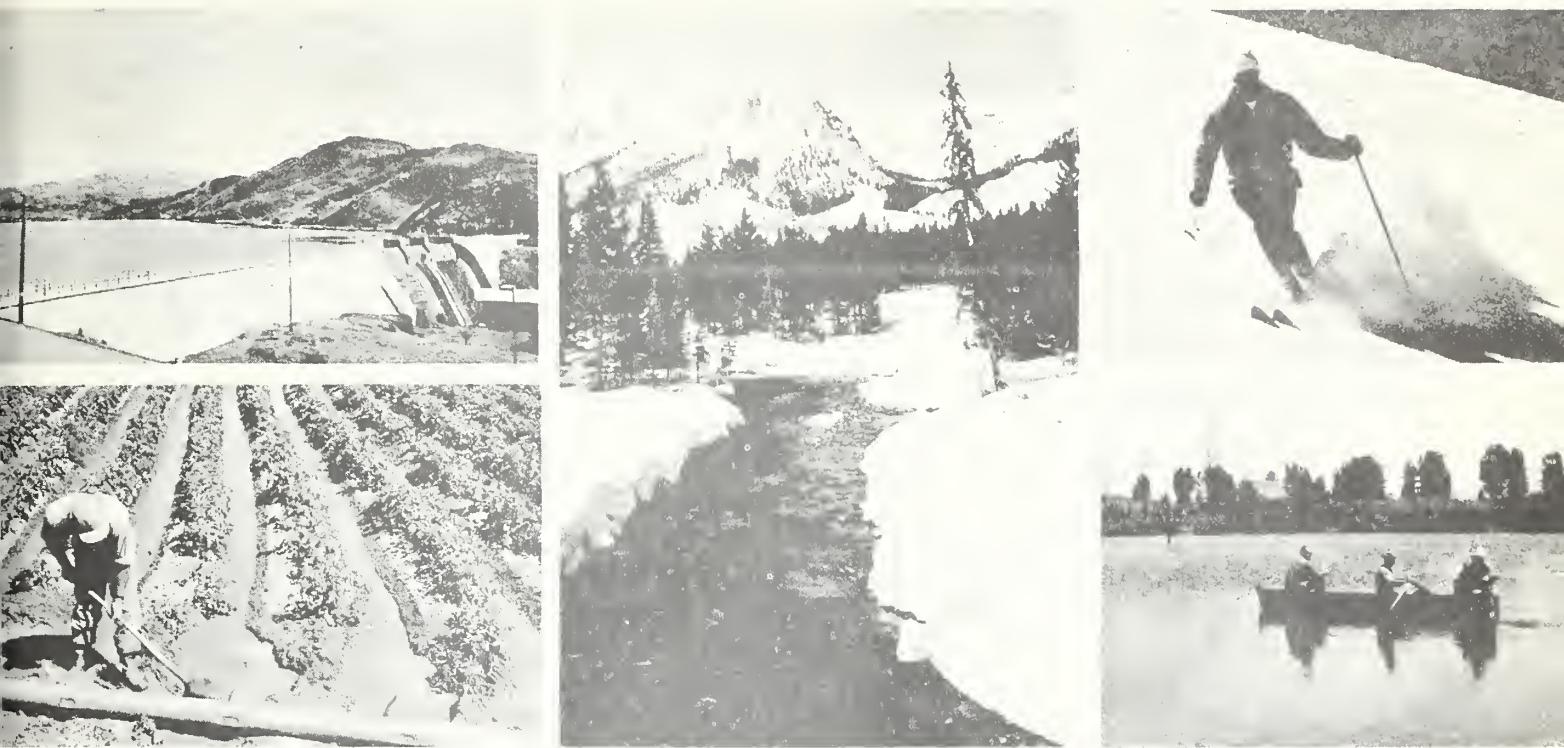
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WATER SUPPLY OUTLOOK for IDAHO



GENERAL SUMMARY FOR MAY 1, 1970

Snowfall during the month of April was well above normal throughout the entire state. Several courses on the streams south of Twin Falls now have the maximum snow cover that has ever been reported for any month of the year. Storms, near the latter part of the month, deposited heavy snow on the headwaters of the Owyhee and Salmon Falls Creek drainages. Snowmelt has been delayed with practically all high elevation courses reporting more water content now than was measured on the first of April. This has resulted in very low streamflow for the month of April. The combination of increased snowpack and delayed melt means more water will have to come down in less time and the percentages of streamflow have taken a significant jump varying from 9% to over 20%.

Soil moisture stations still indicate below normal moisture in the soil at high elevations. However, the heavy snowfall during April has more than made up for this deficiency.

Water users in general in southern Idaho can expect above normal streamflow during the month of May and June because of the recent heavy snow. Forecasts for the April through September irrigation season have been raised slightly, but the amount of water to flow during the May through September period has increased sharply.

Reservoirs, even on the perennially short water supply areas south of the Snake River, have stored water well above normal as of May 1. Some irrigation reservoirs are being lowered in preparation for the relatively heavy streamflow yet to come.

RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1953-67 AVERAGE
<u>UPPER COLUMBIA BASIN</u>				
<u>Clark Fork - Pend Oreille</u>				
Hungry Horse	3428.0	1752.0	2044.0	1974.0*
Flathead	1791.0	752.8	1266.0	933.7
Pend Oreille	1155.1	434.2	330.8	493.8
Noxon	334.6	58.9	150.8	144.9*
<u>Spokane</u>				
Coeur d'Alene	225.1	149.5	--	286.6
<u>SNAKE BASIN</u>				
<u>Snake</u>				
Jackson Lake	847.0	621.3	591.0	438.8
Palisades	1200.0	868.9	781.9	803.4*
American Falls	1700.0	1713.5	1707.0	1664.3
Island Park	127.0	133.8	102.2	133.1
Grassy Lake	15.2	9.4	10.4	11.5
Brownlee	980.2	404.9	375.7	515.2*
<u>Goose-Trapper Creeks</u>				
Oakley	74.4	25.9	28.4	24.3
<u>Salmon Falls Creek</u>				
Salmon Falls	182.6	51.6	66.4	46.9
<u>Big Lost</u>				
Mackay	44.2	40.2	8.1	33.5
<u>Big Wood</u>				
Magic	191.5	191.5	178.9	167.7
<u>Little Wood</u>				
Little Wood	30.0	28.1	25.5	21.5*
<u>Fish Creek</u>				
Carey Valley	14.4	12.9	14.4	--
<u>Boise</u>				
Anderson Ranch	423.2	264.2	281.0	284.4
Arrowrock	286.6	280.2	270.8	230.7
Lucky Peak	278.2	93.3	50.7	147.3*
Lake Lowell (Deer Flat)	169.0	165.8	170.3	156.3
<u>Owyhee</u>				
Owyhee	715.0	696.6	699.2	531.9
<u>Payette</u>				
Cascade	653.2	307.2	314.2	327.8
Deadwood	161.9	96.1	108.1	89.1
<u>Weiser</u>				
Mann Creek	11.1	11.1	--	--
<u>GREAT BASIN</u>				
<u>Bear</u>				
Bear Lake	1421.0	1151.3	1166.3	951.9

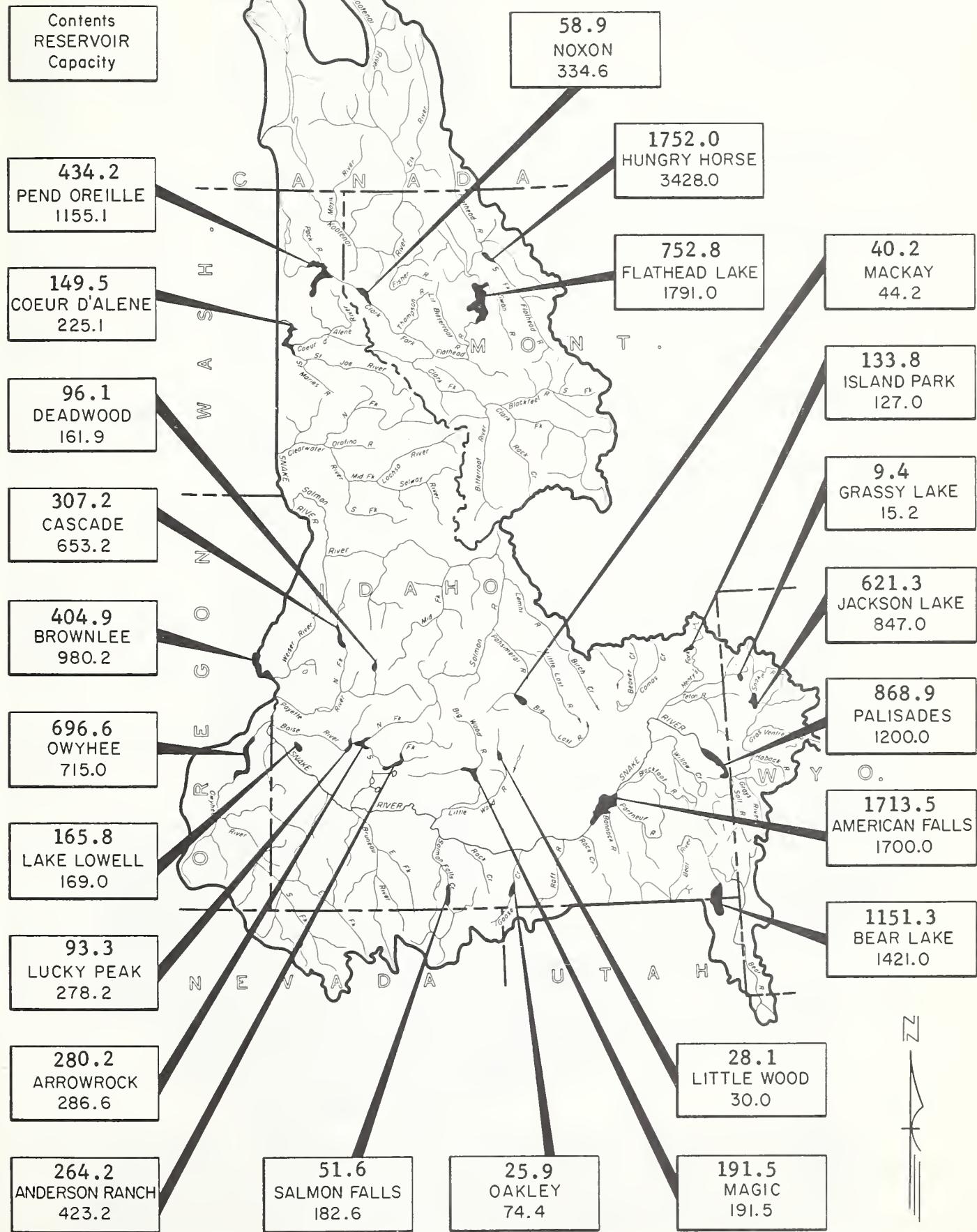
* Period of Record.

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

MAY 1, 1970

50 0 50 100 150
SCALE IN MILES



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST Thousand Acre Feet	Percent of Average	FORECAST PERIOD	THOUSAND ACRE FEET Last Year	Average +

UPPER COLUMBIA BASINKOOTENAI RIVER

Leonia	(at)	6200	74	May - Sep	9169	8397
		5420	74	May - Jul	8123	7271
		4200	74	May - Jun	6374	5662

Priest River

Priest River 1/	(nr)	750	104	May - Jul	784	721
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SPOKANE RIVER

Post Falls 2/	(at)	2100	100	May - Sep	1866	2110
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Coeur d'Alene River

Cataldo	(nr)	820	100	May - Sep	757	820
		760	100	May - Jul	707	762

St. Joe River

Calder	(at)	1040	100	May - Sep	966	1040
		970	100	May - Jul	913	974

SNAKE RIVER BASINSNAKE RIVER - MAIN STEM

Moran 3/	(at)	875	109	May - Sep	--	800
Heise 4/	(nr)	3600	106	May - Sep	3170	3410
Blackfoot 5/	(nr)	3700	105	May - Jul	--	3521
Weiser	(at)	5900	118	May - Sep	4996	5002

Henry's Fork

Ashton 6/	(nr)	540	105	May - Sep	672	513
Rexburg 7/	(nr)	1160	105	May - Sep	--	1100

Teton River

St. Anthony	(nr)	390	110	May - Sep	367	353
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Blackfoot River

Blackfoot						
Reservoir Inflow		115	113	Apr - Sep	--	102*

*1948-1962 Average

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Priest Lake.

2/ Observed flow corrected for storage in Coeur d'Alene Lake 3/ Corrected for storage in Jackson Lake.

4/ Corrected for storage in Jackson Lake and Palisades. 5/ Corrected for storage in Jackson Lake, Palisades,

Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot. 6/ Corrected for storage

in Henry's Lake and Island Park Reservoir. 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake

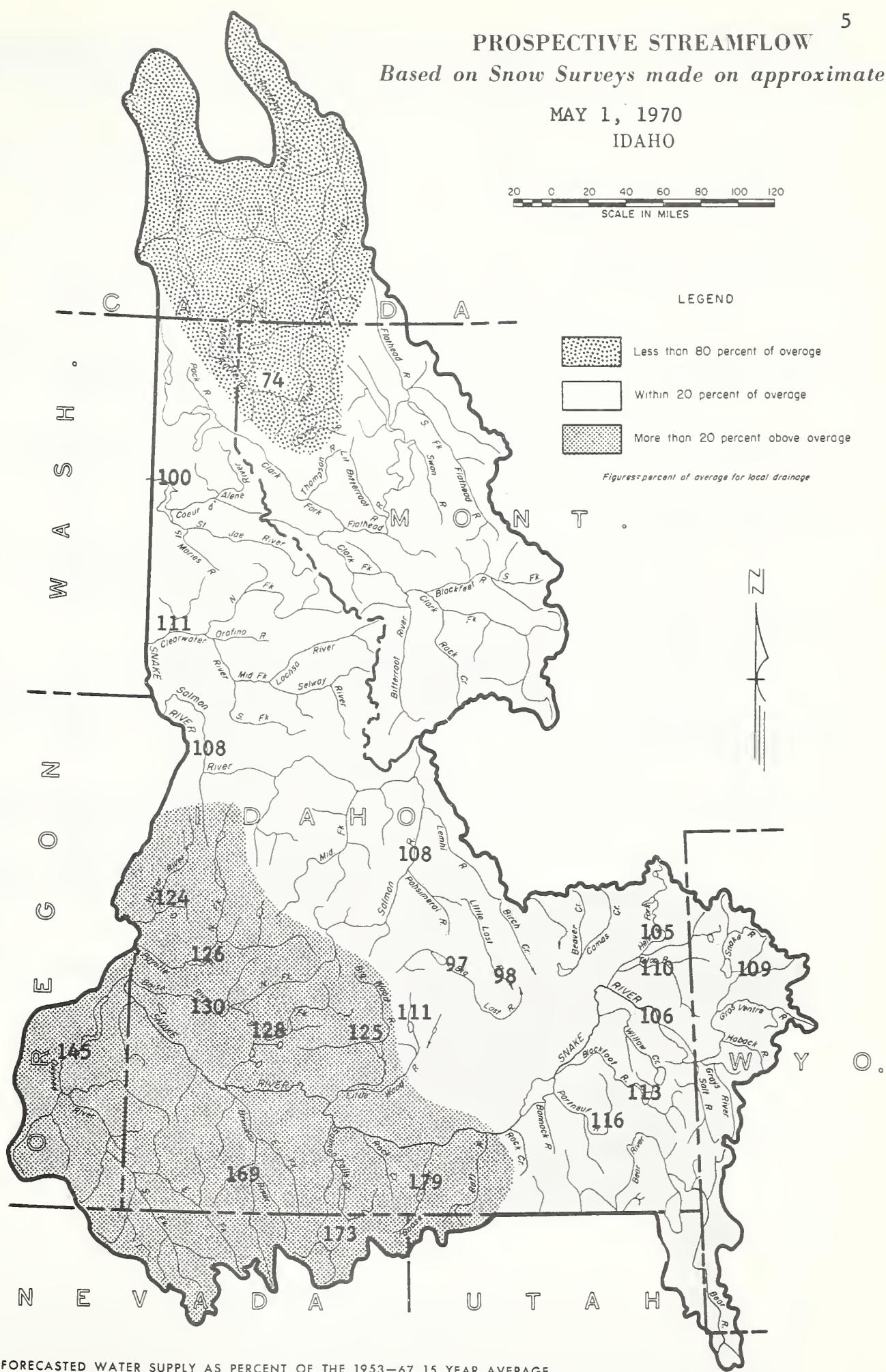
and diversions between Ashton and Rexburg.

+ 1953-1967 period.

PROSPECTIVE STREAMFLOW

Based on Snow Surveys made on approximately

MAY 1, 1970
IDAHO



FORECASTED WATER SUPPLY AS PERCENT OF THE 1953-67 15 YEAR AVERAGE

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST Thousand Acre Feet	Percent of Average	FORECAST PERIOD	THOUSAND ACRE FEET Last Year	Average +
<u>Portneuf River</u>					
Topaz	(at)	65	116	May-Sep	--
Oakley Reservoir Inflow		28	179	May-Sep	13.5
Salmon Falls Creek					
San Jacinto	(nr)	80	173	May-Sep	52.2
		75	174	May-Jul	48.5
Bruneau River					
Hot Springs	(nr)	240	169	May-Sep	163
Little Lost River					
Howe	(nr)	30	98	May-Sep	39.2
Big Lost River					
Howell Ranch	(at)	180	97	May-Sep	279
		125	98	May-Jun	206
Mackay 1/	(nr)	155	97	May-Sep	255
Big Wood River					
Magic Reservoir		230	125	May-Sep	379
Inflow 2/		200	125	May-Jul	364
Little Wood River					
High Five Creek	(ab)	70	111	May-Sep	127
Boise River					
Twin Springs	(nr)	770	130	May-Sep	595
		700	129	May-Jul	546
Boise 3/	(nr)	1600	130	May-Sep	1360
South Fork					
Anderson Dam 4/	(at)	600	128	May-Sep	556
Owyhee River					
Gold Cr., Nev. 5/	(nr)	12	150	May-Jul	18
Owyhee, Nev. 5/	(nr)	55	145	May-Jul	52
Lake Owyhee		260	145	May-Sep	214
net inflow 6/		240	150	May-Jul	196
Jordan Creek					
Lone Tree Creek	(ab)	75	156	May-Jul	--
					48.3*

*1955-1967 Average

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Mackay Reservoir
 2/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine. 3/ Corrected for storage in Arrow-rock, Anderson Ranch and Lucky Peak. 4/ Corrected for storage in Anderson Ranch Reservoir. 5/ Corrected for storage in Wild Horse Reservoir. 6/ From U.S.B.R. records of inflow.
 + 1953-1967 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST Thousand Acre Feet	Percent of Average	FORECAST PERIOD	THOUSAND ACRE FEET	Last Year
<u>Payette River</u>					
Horseshoe Bend 1/ Banks 2/	(nr)	1900	126	May - Sep	1565
	(nr)	1030	126	May - Jul	896
<u>North Fork</u>					
Cascade 3/ Banks 3/	(at) (nr)	575 720	126 125	May - Sep May - Sep	478 590
<u>Weiser River</u>					
Weiser ab. Crane Creek 4/		330	124	May - Sep	267
<u>Salmon River</u>					
Whitebird	(at)	6700	108	May - Sep	6097
Challis	(nr)	890	108	May - Sep	--
		770	108	May - Jul	710
<u>Clearwater River</u>					
Spalding	(at)	7600	111	May - Sep	5915
					6824

GREAT BASIN**BEAR RIVER**

<u>Montpelier Creek</u>						
Montpelier	(nr)	9	103	May - Sep	--	8.7
<u>Cub River</u>						
Preston	(nr)	45	103	May - Sep	--	43.7*

* 1956-1967 Average

VALLEY PRECIPITATION 1/

Division Averages and Departures

In Inches

DRAINAGE DIVISIONS	Nov. 69 - March 70		April 1970	
	Observed	Departure 2/	Observed	Departure 2/
Upper Snake	9.78	-0.25	2.31	+0.52
Snake River Plain	5.44	+1.13	1.01	+0.02
Clark Fork	4.15	-0.32	0.72	-0.36
Flathead	9.52	-0.56	1.52	-0.21
Salmon-Boise-Payette	12.65	+1.52	0.93	-0.78
Clearwater	14.67	+1.06	2.69	-0.13
Pend Oreille-Spokane	17.02	-1.23	2.72	+0.39
Kootenai	9.48	-4.64	1.57	+0.01
Owyhee-Malheur	6.88	+1.70	0.61	-0.26

1/ Preliminary analysis by U. S. Weather Bureau from data furnished by Meteorological Service of Canada and U. S. Weather Bureau.

2/ Departure from 15-year (1953-67) drainage division average.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (inches)	WATER CONTENT (inches)	WATER CONTENT (inches)	AVERAGE b

UPPER COLUMBIA RIVER BASINKOOTENAI RIVER

Smith Creek	16A1	4800	4/28	95	37.9	46.7	49.4
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PEND OREILLE - PRIEST RIVER

Benton Meadow	16A2	2344	4/29	0	0.0	0.0	0.0
Benton Spring	16A3	4900	4/29	53	20.6	16.2	17.1
#Mosquito Ridge (SP)	16A4	5110	4/30	--	37.0	--	--
Schweitzer Bowl	16A6	4500	4/30	71	29.3	25.2	--
Schweitzer Ridge	16A5	6100	4/30	112	43.3	67.0	--

SPOKANE RIVER

Copper Ridge	16B2	4800	4/30	75	31.2	29.8	27.8
#Forty-nine Meadows	15B3	5000	5/4	79	34.2	20.8	30.6*
Fourth of July Summit	16B3	3100	4/30	0	0.0	0.0	--
Granite Peak	15B13	6000	5/4	113	47.4	46.1	--
Lookout	15B2	5250	4/30	111	42.4	37.4	36.7
#Lost Lake	15B14	6000	5/4	135	58.0	73.0	62.7*
Lower Sands Creek	16B1	3400	4/30	47	19.9	18.7	14.6
Medicine Ridge	15B4	6150	5/4	116	45.8	45.5	--
Mosquito Ridge (SP)	16A4	5110	4/30	--	37.0	--	--
Sherwin	16C1	3200	4/27	25	9.4	4.2	--
Sherwin (SP)	16C1	3200	4/27	--	9.2	--	--

LOWER SNAKE RIVER BASINPALOUSE RIVER

Crumarine Creek	16C6	3340	4/28	0	0.0	T	0.0*
East Twin	16C3	4050	4/29	13	6.0	0.5	2.1*
Howard Creek	16C5	3450	4/28	0	0.0	T	0.0*
Moscow Mountain	16C2	4400	4/29	54	21.0	12.1	11.6*
West Twin	16C4	4250	4/29	13	5.3	T	0.0*

CLEARWATER RIVER

Anderson Butte (A)	15D7	6800	5/1	120	48.0	33.8	--
Anderson Ridge (A)	15D8	5400	5/1	63	25.2	--	--
Buck Meadows	15D5	5600	5/1	97	44.2	23.4	--
Cayuse Airstrip	15C3	3700	5/3	0	0.0	0.0	0.9*
Coolwater Mountain	15C7	6200	5/3	122	45.2	27.1	30.6*
Coolwater Mountain (R)	15C7	6200	5/3	--	50.2	20.1	--
Coolwater Mtn. (SP)	15C7	6200	5/3	--	41.3	19.4	--
Copper Butte (A)	15D10	6000	5/1	132	51.5	22.6	--
Crater Meadows	15C9	6100	5/3	126	48.0	44.2	47.2*
Disgrace Butte (A)	15D11	6600	5/1	101	39.4	24.0	--

(b) 1953-67, 15 year period. * Not located directly on this drainage. Estimated 1953-67, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and SNOW COURSE NAME	NO.	ELEVATION	CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches) LAST YEAR	AVERAGE <i>b</i>
Elk Butte	16C15	5550	5/4	95	41.1	28.3	35.8*
Elk Mountain	15D13	6900	5/1	119	48.0	33.1	--
Falls Point (A)	15C11	4600	5/1	48	20.6	0.0	--
Fish Lake Airstrip	15C2	5000	5/3	119	45.2	36.8	42.2*
Forty-nine Meadows	15B3	5000	5/4	79	34.2	20.8	30.6*
Goat Lake	14C9	6600	5/4	121	47.4	51.6	--
#Granite Peak	15B13	6000	5/4	113	47.4	46.1	--
Hemlock Butte	16C6	5500	5/3	144	54.4	45.1	53.9*
Hemlock Butte (SP)	16C6	5500	5/3	--	59.7	--	--
#Hoodoo Basin Mont.	15C8	6000	5/1	138	56.5	51.2	--
#Hoodoo Basin (SP)Mont.	15C8	6000	5/1	--	56.2	--	--
#Hoodoo Creek Mont.	15C1	5900	5/1	132	53.2	49.2	52.0*
Horse Creek #1	15C14	5500	5/1	69	27.6	0.0	--
Horse Creek #4	15C15	5400	5/1	83	31.5	17.8	--
Horse Point (A)	15D21	5700	5/1	72	32.4	5.6	--
Indian Hill (A)	15D22	6100	5/1	72	31.0	0.0	--
Lolo Pass	14C5	5230	4/28	92	34.6	23.7	32.7*
Lost Lake	15B14	6000	5/4	135	58.0	73.0	62.7*
Meadow Cr. Lookout (A)	15D17	7000	5/1	96	38.4	31.3	--
#Medicine Ridge	15B4	6150	5/4	116	45.8	45.5	--
Mill Site	15D18	6700	5/1	108	43.0	--	--
Mountain Meadows	15D6	6300	5/1	93	36.0	17.2	--
#Nez Perce Pass Mont.	14D1	6575	4/27	62	21.8	9.6	13.9
Orogrande Mountain	15D4	7800	5/3	136	54.8	43.2	48.0*
Orogrande Mountain (R)	15D4	7800	5/3	--	51.9	42.1	--
Pierce Ranger Station	15C5	3170	4/29	1	0.2	0.0	1.9*
Powell Ranger Station	14C6	4230	4/28	0	0.0	0.0	--
Sable Hill (A)	15D20	6000	5/1	69	29.7	8.5	--
Savage Pass	14C4	6600	4/28	84	29.9	24.3	--
Shanghai Summit	15C4	4600	5/3	72	29.6	18.1	24.0*

SALMON RIVER

Big Creek Summit	15E2	6600	4/28	110	41.2	39.9	36.1
#Boulder Creek	16D1	5500	4/29	56	19.5	7.8	15.9*
Brundage Mountain	16D6	7560	4/28	152	59.2	53.8	--
#Galena Summit	14F12	8795	4/30	78	28.2	29.4	24.5
#Gibbons Pass Mont.	13D2	7100	4/29	84	29.0	21.6	23.1
Mill Creek Summit	14E1	8870	4/29	70	25.5	28.1	--
Moose Creek	13D16	6200	4/30	64	22.4	10.9	12.3*
Morgan Creek	14E4	7580	4/29	62	18.6	10.5	14.2*
#Rock Flat Summit	16E1	5200	4/28	57	20.1	16.0	15.7*

Lemhi River

Above Gilmore	13E19	8200	4/30	49	14.9	9.6	--
Gertson Creek (A)	13D17	8050	5/1	26	7.9	0.0	--
Meadow Lake	13E18	9100	4/30	74	25.6	20.6	--

(b) 1953-67, 15 year period. * Not located directly on this drainage. • Estimated 1953-67, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SOIL MOISTURE

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (inches)	WATER CONTENT (inches)	WATER CONTENT (inches)	AVERAGE ^b
<u>MIDDLE SNAKE RIVER BASIN - NORTHSIDE</u>							
<u>LITTLE LOST RIVER</u>							
Fairview Guard Sta.	13E5	6750	5/1	0	0.0	0.0	--
Lost Garfield	13E3	6600	5/1	0	0.0	0.0	--
Moonshine	13E6	7450	5/1	37	11.5	9.4	--
Sawmill Canyon	13E4	6900	5/1	26	8.5	T	--
Wet Creek Summit	13E7	7600	4/28	41	13.0	--	--
<u>BIG LOST RIVER</u>							
Iron Bog	13F11	7650	4/30	23	7.6	12.0	--
Leadbelt	13F12	6800	4/30	12	3.6	5.8	--
White Knob	13F1	7700	4/29	40	12.1	8.8	7.6*
<u>BIG WOOD RIVER</u>							
#Couch Summit	14F10	6950	4/28	48	19.0	19.7	11.4*
Galena	14F1	7300	4/29	52	21.6	15.8	14.6
Galena Summit	14F12	8795	4/30	78	28.2	29.4	24.5
Graham Ranch	14F5	6200	4/29	23	8.4	8.8	--
Mount Baldy	14F9	9000	4/29	65	20.2	30.3	21.8
Soldier Rgr. Sta.	14F11	6100	4/28	0	0.0	T	--
<u>BOISE RIVER</u>							
Atlanta Summit	15F4	7500	4/30	97	37.7	39.9	35.4*
Atlanta Summit (SP)	15F4	7500	4/30	--	36.1	38.4	--
Bad Bear	15F2	5500	4/30	23	10.6	0.0	4.1*
#Bogus Basin	16F2	6120	4/30	88	35.3	23.2	21.0
Bogus Basin Road	16F4	5360	4/30	0	0.0	0.0	0.0*
Couch Summit	14F10	6950	4/28	48	19.0	19.7	11.4*
Moores Creek Summit	15F1	6100	4/30	92	36.3	31.2	29.7
#Soldier Rgr. Sta.	14F11	6100	4/28	0	0.0	T	--
Trinity Mountain	15F5	7780	5/1	114	48.1	47.7	42.9*
<u>PAYETTE RIVER</u>							
#Big Creek Summit	15E2	6600	4/28	110	41.2	39.9	36.1
Bogus Basin	16F2	6120	4/30	88	35.3	23.2	21.0
#Brundage Mountain	16D6	7560	4/28	152	59.2	53.8	--
Cozy Cove	15E8	5900	4/27	40	17.7	11.1	8.6
Crawford Rgr. Sta.	15E3	4800	4/28	0	0.0	0.0	0.0*
Deadwood Airstrip	15E10	5440	4/27	36	15.6	--	6.4*
Deadwood Dam	15E7	5290	4/27	34	15.9	10.5	11.2
Rock Flat Summit	16E1	5200	4/28	57	20.1	16.0	15.7*
<u>WEISER RIVER</u>							
Boulder Creek	16D1	5500	4/29	56	19.5	7.8	15.9*

(b) 1953-67, 15 year period. * Not located directly on this drainage. * Estimated 1953-67, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SOIL MOISTURE

STATION NAME		PROFILE (inches)		SOIL MOISTURE (inches)			
		DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
<u>LITTLE WOOD RIVER</u>							
Garfield R. S.	6554	36	5.2	3/26	2.7	--	4.8
<u>BIG WOOD RIVER</u>							
Galena	7300	48	10.1	4/30	6.5	9.8	8.5
Galena Summit	8795	48	5.8	4/30	1.8	4.9	1.8
<u>BOISE RIVER</u>							
Bad Bear	5500	72	6.3	4/30	5.7	5.6	5.5
Bogus Basin Road	4830	48	7.1	4/30	5.7	5.7	5.8

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (inches)	WATER CONTENT (inches)	WATER CONTENT (inches)	LAST YEAR
						b	

MIDDLE SNAKE RIVER BASIN - SOUTHSIDERAFT RIVER

George Peak (SP)	13H4	9000	4/30	--	20.5	--	--
Howell Canyon	13G1	8000	5/1	100	41.5	14.4	--

GOOSE CREEK

Badger Gulch	14G3	6660	4/28	51	16.6	5.4	--
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SALMON FALLS CREEK

#Bear Creek (A) Nev.	15H1	7800	4/30	78	26.3	20.3	19.4*
Cedar Creek (A)	14G5	7000	4/30	27	10.1	0.0	2.1*
Deadline	14G4	6900	4/29	90	33.6	11.5	18.1*
#Fox Creek Nev.	15H2	6800	Not Measured		--	--	
Goat Creek (A) Nev.	15H13	8800	4/30	78	27.2	15.9	18.2*
#Hummingbird Spgs.(A) Nev.	15H15	8945	4/30	114	38.5	30.0	22.8*
Magic Mountain	14G2	6700	4/30	74	25.8	11.8	14.5*
#Pole Creek R.S. Nev.	15H14	8330	4/29	89	30.0	21.6	21.6*
Red Point (A) Nev.	15H18	7940	4/30	60	20.3	0.0	9.0*
Wilson Creek (A)	15G2	7500	4/30	39	13.2	9.3	--

BRUNEAU RIVER

Bear Creek (A) Nev.	15H1	7800	4/30	78	26.3	20.3	19.4*
Hummingbird Spgs. (A) Nev.	15H15	8945	5/1	114	38.5	30.0	22.8*
Pole Creek R.S. Nev.	15H14	8330	4/29	89	30.0	21.6	21.6*
#Seventy-six Creek (A) Nev.	15H3	7100	4/30	36	12.2	8.8	--

OWYHEE RIVER

#Bear Creek (A) Nev.	15H1	7800	4/30	78	26.3	20.3	19.4*
#Seventy-six Creek (A) Nev.	15H3	7100	4/30	36	12.2	8.8	--
Silver City	16F3	6400	5/1	52	20.5	11.2	6.7*
South Mountain	16G1	6340	5/1	37	15.2	5.8	--

(b) 1953-67, 15 year period. * Not located directly on this drainage. * Estimated 1953-67, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	AVERAGE ^b

UPPER SNAKE RIVER BASINHENRYS FORK RIVER

Big Springs	11E9	6500	4/30	62	24.5	14.1	17.0*
Grassy Lake Wyo.	10E15	7230	5/1	109	42.6	27.2	32.6
Island Park	11E10	6315	4/30	47	18.4	9.4	9.7*
Sawtelle Mountain	11E32	8715	4/30	113	41.4	44.8	--
Targhee Pass	11E34	7000	4/30	56	17.8	18.1	--
Valley View	11E8	6500	4/30	46	16.7	13.8	13.0*

TETON RIVER

Darby Canyon (A)	10F21	8250	5/1	84	30.7	--	--
Freds Mountain	10F22	8000	4/30	94	34.4	20.2	--
Pine Creek Pass	11F2	6750	4/30	63	24.7	8.3	11.0*
State Line	11F1	6400	4/30	57	20.3	4.2	8.5

SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
NAME	ELEVATION	DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
<u>HENRYS FORK RIVER</u>							
Island Park	6315	48	9.9	4/30	8.2	9.9	10.3
Valley View	6500	48	13.3	3/31	12.6	13.2	9.7
<u>TETON RIVER</u>							
Pine Creek Pass	6750	48	13.3	4/30	12.2	14.9	14.8
State Line	6400	48	14.8	4/30	12.8	15.2	14.8
Teton Pass	8500	48	10.5	4/30	6.9	11.5	9.2
<u>PORTNEUF RIVER</u>							
Lower Dempsey	5210	48	18.7	3/30	21.0	20.2 ^a	--
Lower Pebble	5800	36	7.6	3/31	5.2	8.5 ^a	8.5 ^a
Pebble Creek	6550	48	7.2	3/31	4.7	6.5 ^a	5.1 ^a
a April Measurement							

(b) 1953-67, 15 year period. * Not located directly on this drainage. * Estimated 1953-67, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent.

(R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	PAST RECORD
						LAST YEAR	AVERAGE <i>b</i>

GREAT BASIN**BEAR RIVER**

Emigrant Summit	11G6	7350	5/1	72	27.9	24.4	21.5*
Emigration Canyon	11G7	6500	5/1	14	5.8	--	--

Mink Creek

Christensen Ranch	11G11	5600	4/30	4	0.4	0.0	0.0
Dry Basin (A)	11G14	7900	5/2	89	31.9	--	--
#Emigrant Summit	11G6	7350	5/1	72	27.9	24.4	21.5*
Horseshoe Basin (A)	11G15	8000	5/2	84	30.1	--	--
Liberty Spring	11G13	8600	4/29	118	42.3	41.0	39.4*
Strawberry Creek	11G9	5800	4/29	22	5.7	0.0	2.1*
Strawberry Mink Divide	11G10	6800	4/29	59	21.5	13.4	14.1*

Cub River

Cub River R. S.	11G12	5400	4/30	4	0.8	0.0	0.0*
#Franklin Basin (SP)	11G8	8000	4/30	--	34.7	--	--
Willow Flat	11G4	6100	4/30	29	9.7	0.0	3.3*

SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
NAME	ELEVATION	DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
<u>BEAR RIVER</u>							
Emigrant Summit	7350	36	8.2	5/1	7.1	6.4	4.0
Strawberry Creek	5800	48	12.7	5/1	10.6	12.6	12.7
<u>Montpelier Creek</u>							
Giveout Pass	7025	36	9.4	3/30	4.2	7.7	7.6
Jenson Ranch	6580	48	18.7	3/30	10.8	--	15.9

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Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

Canada:

Department of Lands, Forests, and
Water Resources, British Columbia
Department of Resources and Development,
Water Resources Division

States:

Idaho State Reclamation Engineer
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U. S. Army Engineers
U. S. Department of Agriculture
Forest Service
Agricultural Research Service
U. S. Department of Commerce
Environmental Sciences Service Administration,
Weather Bureau
U. S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Water Resources Division, Geological Survey
Indian Service
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Boise Project Board of Control
Little Wood River Irrigation District
Jordan Valley Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Twin Lakes Irrigation Company
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control

PRIVATE CORPORATIONS

Amalgamated Sugar Company

*Other organizations and individuals furnish valuable information for
snow survey reports. Their cooperation is gratefully acknowledged.*

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